total control®

Owner's Manual

THZ-100

Thermostat

URC™
Control the Experience.

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Table Of Contents

Welcome To Your THZ-100 Thermostat	1
Installing Your THZ-100 Thermostat	2
Wiring Your THZ-100 Thermostat	3
Definitions	3
Single Stage Furnace and Single Stage A/C	3
Dual Stage Furnace and Dual Stage A/C	4
Single Stage Heat Pump with Reversing Valve O	4
Single Stage Heat Pump with Reversing Valve B	5
Dual Stage Heat Pump with Reversing Valve O	5
Dual Stage Heat Pump with Reversing Valve B	6
Boiler and A/C with Separate Transformers	6
First Stage Radiant Floor Heat, Second Stage Furnace with Single Stage Cooling and External Pilot Duty Relay	7
Operation For Your THZ-100 Thermostat	8
Thermostat Display Information	8
Changing the Mode (Cool, Heat, Auto, Off)	9
Changing the Heating Temperature (Temperature Override)	9
Changing the Cooling Temperature (Temperature Override)	11
Auxiliary Heat	11
Emergency Heat	12
Intelligent Comfort Recovery	12
Password Protection	13
Programs	14

Table Of Contents

Changing to Vacation Mode	14
Selecting Hold	15
Selecting Hold for Time	16
Returning to Schedule Mode	17
Options	18
Climate Modes	18
Changing the Fan Modes	22
Accessing Temperature Sensor Information	24
Turning Emergency Heat On or Off	25
Changing the Auxiliary Heat Offset Temperature	26
Changing the 2nd Stage Offset Temperature	26
Resetting the Filter Reminder	29
Turning the Password Protect Feature On or Off	30
Changing the LCD Screen Options	31
Viewing THZ-100 Thermostat Information	34
Setting the Date and Time	34
Discovery Mode	35
Troubleshooting Thermostat On-Screen Notifications	36
Limited Warranty Statement	37
End User Agreement	39
Specifications	40
Federal Communication Commission Interference Statement	41
Regulatory Information to the user	42
Declaration of Conformity	43

Welcome To Your THZ-100 Thermostat

Congratulations on your purchase of this THZ-100 Thermostat from URC. Enjoy the full functionality of a stand-alone thermostat coupled with the ability, when used with a Total Control system, to be controlled from any user interface in the system. No more shivering under the covers, dreading to dare the inevitable cold on the way to the shower; grab the remote and make it nice and toasty, before removing the blanket!

Some of the advanced, and unique features found on the THZ-100 are:

Optional Wired Sensor
Easily add an additional sensor to the thermostat by purchasing the optional wired sensor. With the ability to temperature average between the sensor and the main unit, or simply take the place of the main unit's on-board sensor, you can increase both efficiency and accuracy of temperature readings.

Intelligent Comfort Recovery
Every good thermostat has the ability to set heating and cooling schedules, but if you wake up at 7:30am, setting your heat to come on at 7:30am means waking up to an uncomfortable home while your system reaches your desired temperature. With **Intelligent Comfort Recovery,** the THZ-100 monitors the current temperature of your home and determines the amount of time it will take to reach your desired temperature at the desired time. Then, it slowly and more efficiently heats or cools to the new set point.

Security Code
Perfect for most commercial uses, and even for some homes where people have the need to ensure that only authorized people should have access to the THZ-100. Easily program your new thermostat with a 4-digit security code to make sure that only people with the code can access the thermostat.

Total Control Peripheral
Perhaps the best benefit is the THZ-100's complete integration into a Total Control home system. When used with URC's Total Control system, the thermostat control can be accessed from any of the system's interfaces (dependent upon the system programmer). With the ability to control all of the THZ-100s in the home, it is also easy to incorporate heat/cool set points into various Automation Activities. Although the possibilities are endless, imagine a **Goodnight** button that would turn off your theater, turn off all the lights and bring the THZ-100 to the chosen set point!

Installing Your THZ-100 Thermostat

Adding an optional wired sensor can be a benefit if the thermostat location is not the optimal location for temperature measurement, or if temperature averaging is desired.

- A wired sensor can be connected to the S+ and S- terminals on the back of the unit
- This can be added to any of the wiring options detailed in the next pages

For optimum performance, mount the THZ-100 thermostat and/or remote sensor

- In an open living area where there is good air circulation
- On an inside wall
- Away from outside doors or windows
- At a height about 5 feet from the floor

Avoid installing the THZ-100 thermostat and/or remote sensor

- In direct sunlight
- Above radiators or air vents
- Near fans or portable heating units
- Near lamps or other incandescent lighting
- Near other heat generating electric appliances such as televisions, audio video equipment, refrigerators, freezers, ovens, cooktops, etc.

Other precautions when installing the THZ-100 thermostat and/or remote sensor

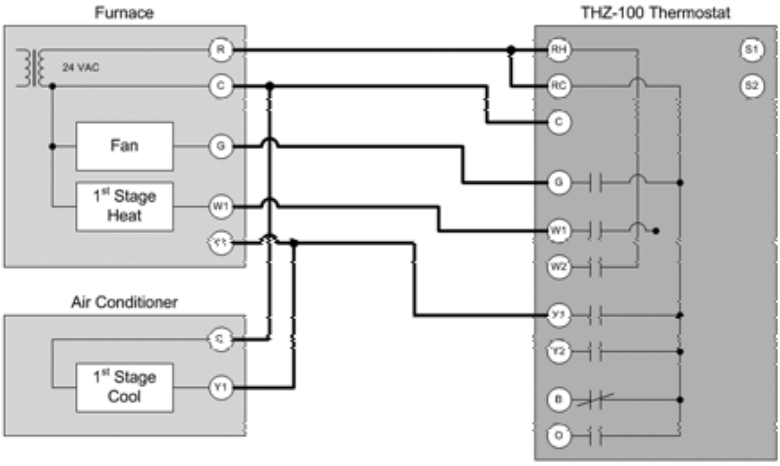
- Make sure the cutout for the HVAC wiring is no larger than needed to make proper connections to the thermostat
- If there is a large air gap in the cutout for the HVAC wiring, insulate around the wire and close off the air gap
- Make sure the air vents in the THZ-100 thermostat and/or remote sensor are clear of dirt, dust, or any construction material.

Wiring Your THZ-100 Thermostat

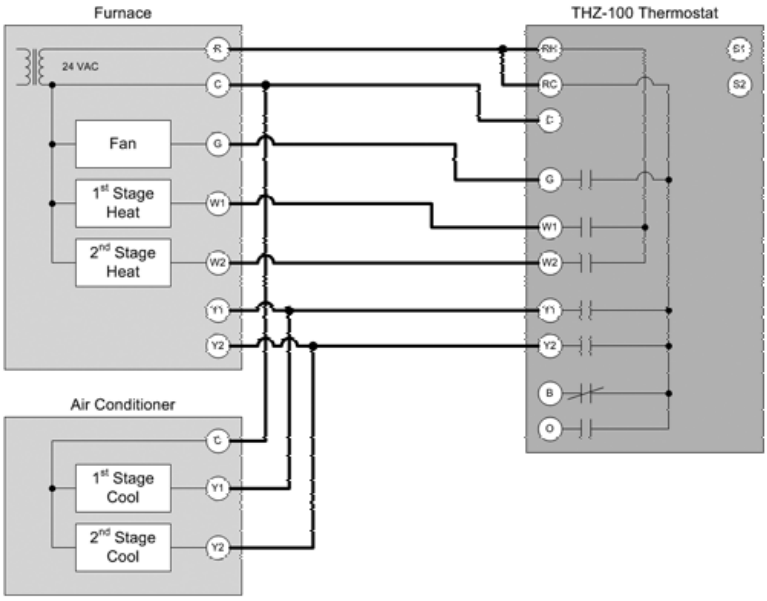
Definitions

- RH – Heating System 24VAC
- RC – Cooling System 24VAC
- C – 24VAC Transformer Common
- G – Indoor Unit Fan Connection
- W1 – 1st Stage Heat
- W2 – 2nd Stage Heat
- Y1 – 1st Stage Cooling
- Y2 – 2nd Stage Cooling
- B - Reversing Valve (Heating)
- O - Reversing Value (Cooling)
- S+ - Wired Sensor
- S- - Wired Sensor

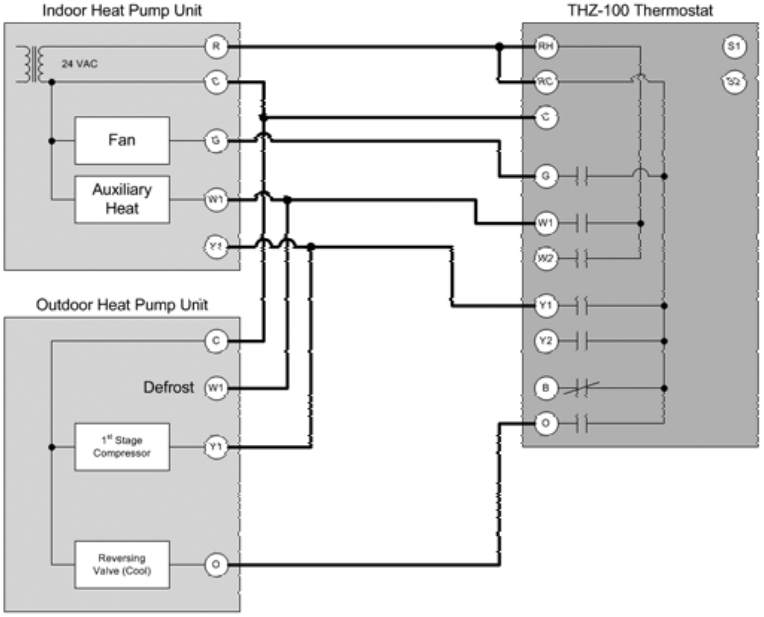
Single Stage Furnace and Single Stage A/C



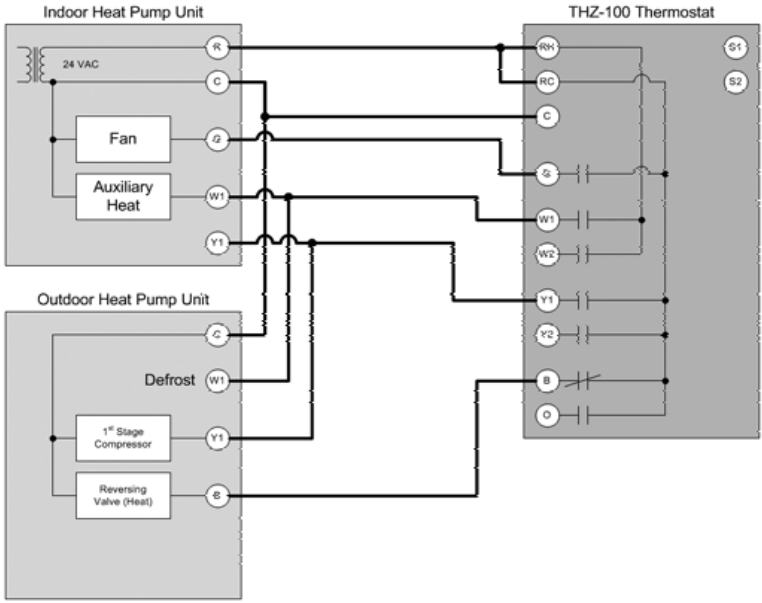
Dual Stage Furnace and Dual Stage A/C



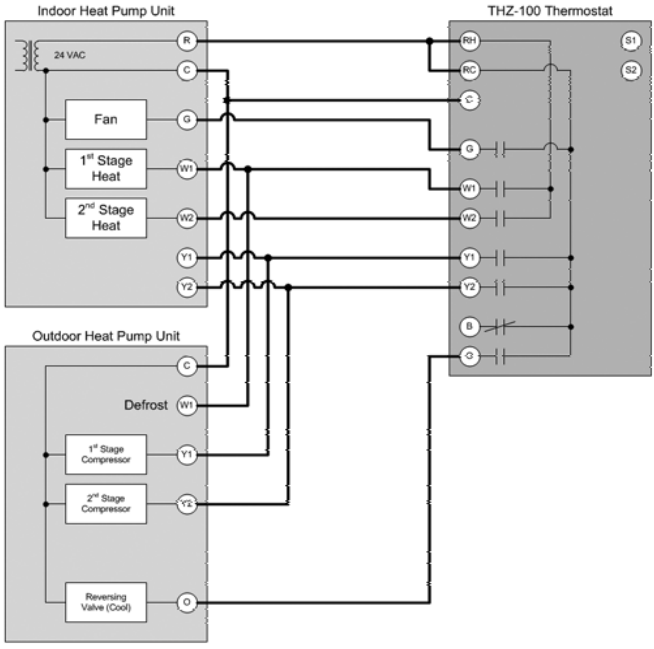
Single Stage Heat Pump with Reversing Valve O



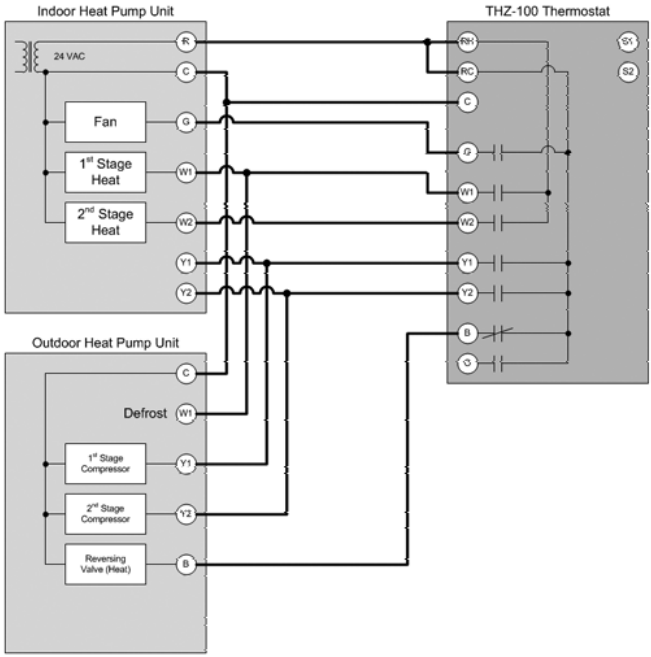
Single Stage Heat Pump with Reversing Valve B



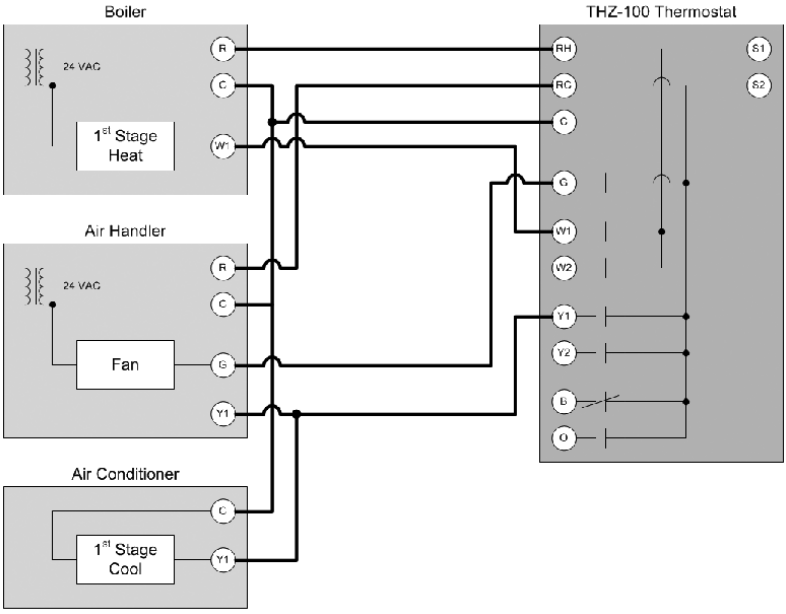
Dual Stage Heat Pump with Reversing Valve O



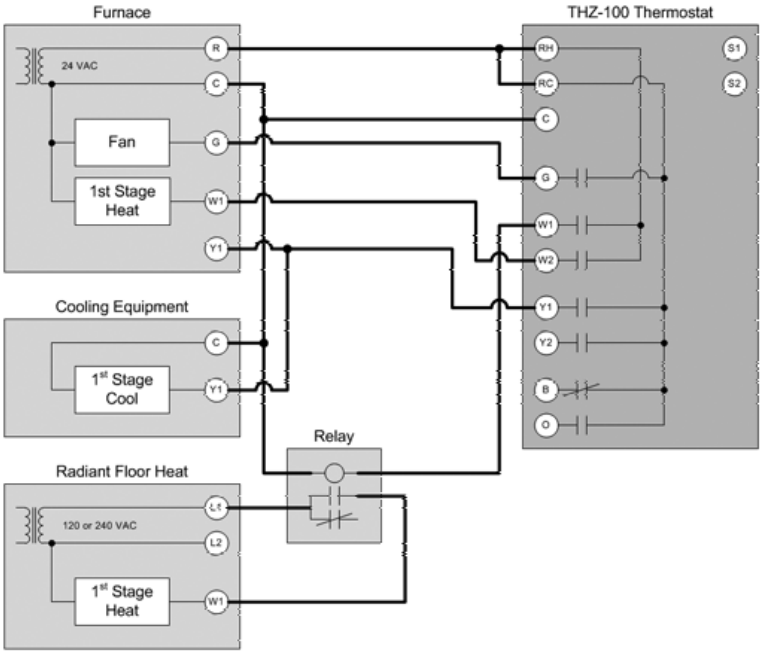
Dual Stage Heat Pump with Reversing Valve B



Boiler and A/C with Separate Transformers



First Stage Radiant Floor Heat, Second Stage Furnace with Single Stage Cooling and External Pilot Duty Relay

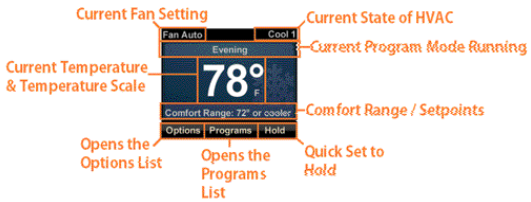


Operation For Your THZ-100 Thermostat

Your THZ-100 thermostat has been programmed by the MRX Advanced Network System Controller system with your custom HVAC schedule of heat and cool set points for the selected time periods for each day of the week. In addition, the thermostat has been programmed by the MRX Advanced Network System Controller for the type of HVAC equipment, conventional or heat pump, the number of auxiliary heat and/or cool stages, any remote sensors, and any pass code lockout code if desired.

Thermostat Display Information

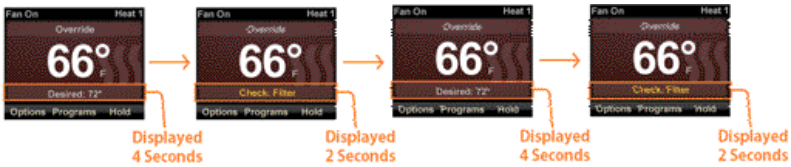
Your THZ-100 thermostat features a color backlit LCD display with all the information you need for easy operation. The top left of the screen has the fan mode information while the top right of the screen has the current system mode such as Heat or Cool.



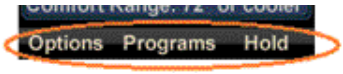
The center of the screen displays the current temperature with different backgrounds dependent upon whether the thermostat is in Heating, Cooling or Idle mode. The small letter **F** or **C** at the lower right of the current temperature indicates the temperature scale.

Directly above the current temperature is the name of the program mode that is currently running: Morning, Day, Evening, Night, Vacation, Override, Hold, or Hold to <time>. When the system is OFF there is no text in this area.

Directly below the current temperature is information on the current comfort range and the set points. This area is also used for notifications such as Check Wireless, Check Network, or Check Filter which alternates on screen with the set point information.



At the bottom of the screen is a smart-key label to identify the current function of the push button located directly below.



Changing the Mode (Cool, Heat, Auto, Off)

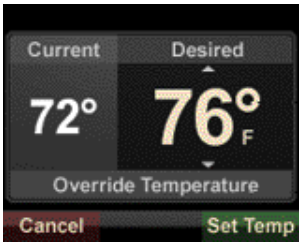
To change the mode of your HVAC system equipment between Cooling, Heating, Auto (system will automatically change between cooling and heating) or OFF enter the Options menu then access the Climate Modes sub menu as described below.

Changing the Heating Temperature (Temperature Override)

To change the current heating temperature, press the Up or Down arrow key on the thermostat. The thermostat screen shows the current temperature on the left side and the desired temperature on the right side of the display.

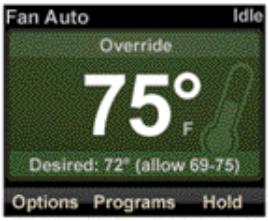
Press the Up and Down arrow keys to set your new desired heating temperature to override the programmed value. To save the new desired value, press the key below the Set Tempkey label in the smart-key labeled Set Temp at the bottom right of the display. You can also save the new desired temperature by simply allowing the display to time out while the current and desired override temperatures are displayed.

If you decide to cancel the operation, press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.



This places the thermostat in the Override mode. While in this mode, the thermostat holds your new temperature selection until the next regularly scheduled time period in your pre-programmed HVAC schedule.

When the override set point is met, the information containing the desired override temperature transitions to information including the desired temperature and the heat and cool set points based on the override temperature.



Changing the Cooling Temperature (Temperature Override)

To change the current cooling temperature, press the Up or Down arrow key on the thermostat. The screen now shows the current temperature on the left side and the desired temperature on the right side of the display.

Press the Up and Down arrow keys to set your new desired cooling temperature to override the program value. To save the new desired value, press the key below the **Set Temp** key label in the smart-key label at the bottom right of the display. You can also save the new desired temperature by simply allowing the display to time out while the current and desired override temperatures are displayed.

If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.

This places the thermostat in the Override mode. In the Override mode, the thermostat holds your new temperature selection until the next regularly scheduled time period in your pre-programmed HVAC schedule.

When the override set point is satisfied the information containing the desired override temperature with transition to information including the desired temperature and the heat and cool set points based on the override temperature.

Auxiliary Heat

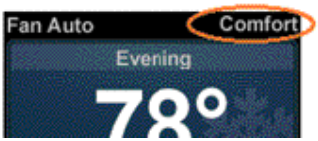
Auxiliary heat consists of additional stages of conventional gas, or electric heat, capacity included with most heat pump systems. The auxiliary heat stages are automatically selected by the system when the outside temperature is too cold for the heat pump to heat your home effectively. The staging of the auxiliary heat is based on the information selected in the MRX Advanced Network System Controller setup of your thermostat.

Emergency Heat

Emergency heat is conventional gas, or electric heat, capacity included with most heat pump systems. Emergency heat is selected by the user from the **Options** menu as described below when additional heat capacity is desired. Emergency heat reduces the energy efficiency of the heat pump system. When in emergency heat, the display indicates this state in the upper right of the display.

Intelligent Comfort Recovery

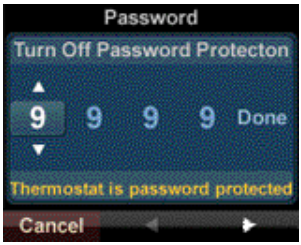
When there are significant set point differences between programmed set points of different program time periods your THZ-100 anticipates the change in advance and begins to ramp the current set point to the next programmed set point to give you a smooth comfort transition. During this comfort recovery period the thermostat indicates **Comfort** in place of Heat, Cool, or Idle in the upper right of the display window. In addition, the display background changes to indicate whether the system is heating or cooling during this transition.



Password Protection

If your THZ-100 thermostat was initially setup through the MRX Advanced Network System Controller with the **Use Pass Code Lockout** feature enabled on the **Advanced Thermostat Settings** then an **Enter Password Below** displays any time a key is pressed after a period of inactivity. Otherwise, this item does not display.

This screen displays the number 9 four times across the center of the screen followed by the word **Done**. The number 9 on the left side of the display is highlighted with small arrows above and below the number. At the bottom of the screen are three smart-key labels. The left button is **Cancel**, the center button is a left arrow, and the right button is a right arrow.



To enter your password, use the Up and Down arrow keys to enter a number between 0 and 9, then use the left or right arrow smart-keys at the bottom of the page to select the next digit to be entered. The displayed number of 9999 can not be used as a password since it is the default password. When you have entered all four digits of your password, use the right arrow smart-key to move the highlight to the word **Done**. At this point, the right smart-key changes from a right arrow to **Enter**. Press the key below **Enter** to enter your password. If you enter the password correctly the LCD screen changes back to the thermostat Main screen; otherwise, the display maintains the password entry screen.

To turn the password protection OFF go to the **Password** screen in the thermostat **Options** as described below.

Programs

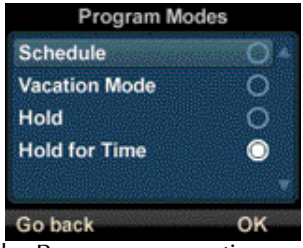
On the main thermostat display, there are three smart-key labels at the bottom of the screen identifying the operation of the three keys below the display. The left button is **Options**, the center key is **Programs**, and the right key is **Hold**. To change between the programmed schedules press the **Programs** key.

The screen updates to show a list of program options as described below.

Changing to Vacation Mode

If you are going to be away from your home and would like to use the Vacation mode override settings for additional energy savings, use the arrow keys to move the highlight bar to **Vacation Mode**.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this new mode. If you decide to cancel the operation then press the key below the **Go Back** key label in the smart-key label box at the bottom left of the display.



Alternately, if you let the Programs screen time out with **Vacation Mode** highlighted it will automatically be selected.

On the main screen, **Vacation** displays above the current temperature information.

Selecting Hold

If you desire to hold a particular desired temperature indefinitely, use the arrow keys to move the highlight bar to **Hold**.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this new mode. If you decide to cancel the operation then press the key below the **Go Back** key label in the smart-key label at the bottom left of the display.

Alternately, if you let the programs screen time out with **Hold** highlighted, by the highlight bar, the hold mode is selected.

On the main screen, **Hold** displays above the current temperature information. In addition, a **Hold Off** short cut key is displayed in the smart-key label at the bottom right of the display. Pressing the **Hold Off** key turns the hold mode off.

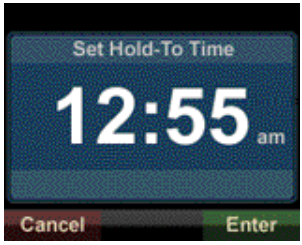
The main screen also has the short cut key on the bottom right to activate the **Hold** mode without having to go to the **Programs** screen. This key toggles between **Hold** and **Hold Off**.

Selecting Hold for Time

If you desire to hold a particular desired temperature for a specific period of time, use the arrow keys to move the highlight bar to **Hold for Time**.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this new mode. If you decide to cancel the operation then press the key below the **Go Back** key label in the smart-key label at the bottom left of the display.

If you select **Hold for Time**, the screen updates to the **Set Hold-To Time** display with the current time displayed. Use the Up or Down arrows to set the time period that you want to hold the desired temperature. The Up and Down arrows changes the time in 30 minute increments. The maximum hold time is 24 hours.



When you have selected the desired time press the key below the **Enter** key label in the smart-key label at the bottom right of the display to select this new mode. If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.

Alternately, if you let the programs screen time out with **Hold for** Time highlighted, by the highlight bar, the hold mode is selected and the screen updates to the **Set Hold-To Time** display.

On the main screen **Hold to** with the desired hold to time is displayed above the current temperature information.

Returning to Schedule Mode
To return the thermostat to the normal program schedule, use the arrow keys to move the highlight bar to **Schedule Mode**.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this new mode. If you decide to cancel the operation then press the key below the **Go Back** key label in the smart-key label at the bottom left of the display.

Alternately, if you let the **Programs** screen time out with **Schedule Mode** highlighted by the highlight bar the schedule mode is selected.

On the main screen, the name of the current normally scheduled time period (Morning, Day, Evening, Night) is displayed above the current temperature information.

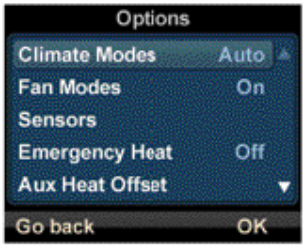
Options

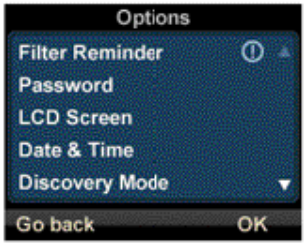
On the main thermostat display, there are three smart-key labels at the bottom of the screen identifying the operation of the three keys below the display. The left button is **Options**, the center key is **Programs**, and the right key is **Hold**. To change between various thermostat options, press the **Options** key.

The screen updates to show the list of available options as described below.

Climate Modes

If you desire to change the HVAC system equipment mode between Cooling, Heating, Auto (system will automatically change between cooling and heating) or **OFF** enter the **Options** menu then access the **Climate Modes** sub menu as described below. The current state





of the system is displayed in the right column.
Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this new mode. If you decide to cancel the operation then press the key below the **Go Back** key label in the smart-key label at the bottom left of the display.

Selecting the Cooling Mode

If you desire to change the HVAC system equipment mode to cooling mode then use the arrow keys to move the highlight bar to **Cool**.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this new mode. If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.

If the **Climate Modes** screen times out and goes back to the main screen without pressing the **OK** button, no change is made to the climate mode.

In **Cool** mode, the thermostat activates the system equipment to cool your home per the programmed schedule or hold temperature.
The thermostat does not activate the system equipment to heat your home while in the **Cool** mode.

Selecting the Heating Mode

If you desire to change the HVAC system equipment mode to heating mode then use the arrow keys to move the highlight bar to **Heat**.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this new mode. If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.

If the **Climate Modes** screen times out and goes back to the main screen without pressing the **OK** button, no change is made to the climate mode.

In **Heat** mode, the thermostat activates the system equipment to heat your home per the programmed schedule or hold temperature. The thermostat does not activate the system equipment to cool your home while in the **Heat** mode.

Selecting the Auto Changeover Mode

If you desire for your HVAC system equipment to automatically switch between the cooling and heating modes as needed to maintain the desired comfort level in your home, use the arrow keys to move the highlight bar to **Auto**.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this new mode. If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.

If the **Climate Modes** screen times out and goes back to the main screen without pressing the **OK** button, no change is made to the climate mode.

In **Auto** mode, the thermostat activates the system equipment to cool or heat your home per the programmed schedule or hold temperature. The system automatically changes between cooling and heating as needed.

Turning the Thermostat Off

If you desire to turn the HVAC system equipment off then use the arrow keys to move the highlight bar to **Climate Control Off**.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this new mode. If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.

If the **Climate Modes** screen times out and goes back to the main screen without pressing the **OK** button, no change is made to the climate mode.

In the **Climate Control Off** mode, the thermostat does not activate the system equipment to cool or heat your home.

Changing the Fan Modes

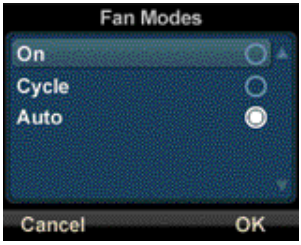
If you desire to change the system fan mode between on continuously, periodic cycling, or automatically on when heating or cooling is on, use the arrow keys to move the highlight bar to **Fan Modes**. The current state of the fan displays in the right column.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this new mode. If you decide to cancel the operation then press the key below the **Go Back** key label in the smart-key label at the bottom left of the display.

Selecting Fan On Continuously

If you desire the system fan to operate continuously then use the arrow keys to move the highlight bar to **On**.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this new mode. If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.



If the **Fan** Modes screen times out and goes back to the main screen without pressing the **OK** button, no change is made to the fan mode.

In **On** mode the fan operates continuously regardless of the equipment operation.

Selecting the Fan to Cycle Periodically

If you desire the system fan to cycle on and off periodically then use the arrow keys to move the highlight bar to **Cycle**.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this new mode. If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.

If the **Fan Modes** screen times out and goes back to the main screen without pressing the **OK** button, no change is made to the fan mode.

In **Cycle** mode, the fan cycles on for 10 minutes then off for 10 minutes. If the system turns on for a heating or cooling cycle then the fan stays on for that complete cycle then turns off for 10 minutes and back on for 10 minutes until the next cooling or heating cycle.

Selecting the Fan On Only with HVAC Equipment

If you desire the system fan to turn on only when the HVAC system equipment is on then use the arrow keys to move the highlight bar to **Auto**.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this new mode. If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.

If the **Fan Modes** screen times out and goes back to the main screen without pressing the **OK** button, no change is made to the fan mode.

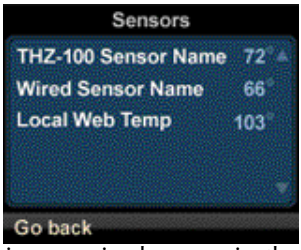
In **Auto** mode, the fan turns on any time the heating or cooling system cycles on and turns off when the system turns off and has gone through any required cool down time.

Accessing Temperature Sensor Information

If you desire to view the status of all temperature sensors used in your system then use the arrow keys to move the highlight bar to **Sensors**.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this new information screen. If you decide to cancel the operation then press the key below the **Go Back** key label in the smart-key label at the bottom left of the display.

If you select **OK** then the display changes to a list of temperature sensors used in your system. The first list entry is the thermostat's onboard sensor. The right side of the screen shows the current reading for that sensor.



The second list entry is any wired sensor in the system. The name of the sensor is displayed with the current reading to the right. If there is no wired sensor in your system then this line is not displayed.

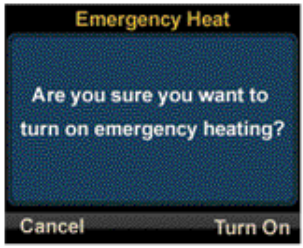
The last list entry is any local temperature information accessed from the internet. The name of the sensor is displayed with the current reading to the right. If there is no internet temperature available to your system, then N/A is displayed.

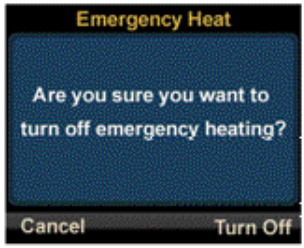
Turning Emergency Heat On or Off

Emergency is staged electric or gas heating included with most heat pump systems. Emergency Heat is activated by a malfunction in the heat pump system or when the user manually selects the option. If you do not have a heat pump system then the **Emergency Heat** feature is not displayed in the options menu list.

If you desire to turn the emergency heat either on or off then use the arrow keys to move the highlight bar to **Emergency Heat**. The current state of the emergency heat is displayed in the right column.

If emergency heat was off then the screen displays "Are you sure you want to turn on emergency heating?" If the emergency heat was on then the screen displays "Are you sure you want to turn off emergency heating?"





Press the key below the **Turn On** or Turn Off key label in the smart-key label at the bottom right of the display to change the state of the emergency heat. If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.

Changing the Auxiliary Heat Offset Temperature
In heat pump systems, the Auxiliary Heat Offset temperature is the temperature difference at which the auxiliary heat is activated. For single stage systems, it is the difference from the set point; for two stage systems, it is the difference from the second stage offset.

If you desire to change the Auxiliary Heat Offset temperature then use the arrow keys to move the highlight bar to **Aux Heat Offset**. If you do not have a heat pump system then the **Aux Heat Offset** feature is not displayed in the options menu list.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this option. If you decide to cancel the operation then press the key below the **Go Back** key label in the smart-key label at the bottom left of the display.

After pressing **OK**, the screen updates to a screen that says **Aux Heat Offset** at the top of the screen and the current offset temperature in the center of the screen. Use the arrow keys to adjust the temperature up or down to the value you desire.

Press the key below the **Set Temp** key label in the smart-key label at the bottom right of the display to save your new offset value. If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.

The initial value is established when the thermostat is initially setup through the MRX Advanced Network System Controller.

Changing the 2nd Stage Offset Temperature
In multi-stage systems, the 2nd Stage Offset temperature is the temperature difference from the set point where the equipment second stage is activated. There is a setting for both heating and cooling. If you do not have a multi-stage system then the **2nd Stage Offset** feature is not displayed in the options menu list.

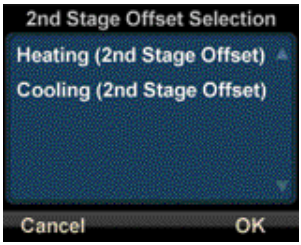
If you desire to change the 2nd Stage Offset temperature then use the arrow keys to move the highlight bar to **2nd Stage Offset**.

Press the key below the **OK** key label in the smart-key label box at the bottom right of the display to select this option. If you decide to cancel the operation then press the key below the **Go Back** key label in the smart-key label box at the bottom left of the display.

After pressing **OK**, the screen updates to a new screen where you choose to set either the heating second stage offset or the cooling second stage offset.

How To Set The Heating 2nd Stage Offset

If you desire to change the heating 2nd stage Offset temperature then use the arrow keys to move the highlight bar to **Heating (2nd Stage Offset)**. If you do not have a multi-stage heating system then the **Heating (2nd Stage Offset)** feature is not displayed in the menu list.



Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this option. If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.

After pressing **OK** the screen updates to a screen that says **Heating 2nd Stage Offset** at the top of the screen and the current offset temperature in the center of the screen. Use the arrow keys to adjust the temperature up or down to the value you desire.

Press the key below the **Set Temp** key label in the smart-key label at the bottom right of the display to save your new offset value. If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.

The initial value is established when the thermostat is initially setup through the MRX Advanced Network System Controller.

How To Set The Cooling 2nd Stage Offset

If you desire to change the cooling 2nd stage Offset temperature then use the arrow keys to move the highlight bar to **Cooling (2nd Stage Offset).** If you do not have a multi-stage cooling system then the **Cooling (2nd Stage Offset)** feature is not displayed in the menu list.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this option. If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.

After pressing **OK** the screen updates to a screen that says **Cooling 2nd Stage Offset** at the top of the screen and the current offset temperature in the center of the screen. Use the arrow keys to adjust the temperature up or down to the value you desire.

Press the key below the **Set Temp** key label in the smart-key label at the bottom right of the display to save your new offset value. If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.

The initial value is setup when the thermostat is initially setup through the MRX Advanced Network System Controller. The default value is 50F or 2.50C.

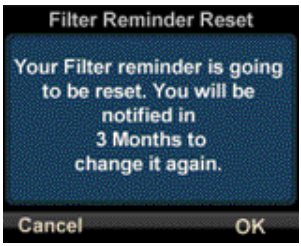
Resetting the Filter Reminder

If a filter reminder time was setup through the MRX Advanced Network System Controller when your thermostat was initially setup, then you will periodically get a **Check: Filter** message on the main screen of the thermostat.

To clear the **Check: Filter** message from the thermostat screen after the filter has been replaced; use the arrow keys to move the highlight bar to **Filter Reminder**.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this new information screen. If you decide to cancel the operation then press the key below the **Go Back** key label in the smart-key label at the bottom left of the display.

The display updates to show **Filter Reminder Reset** at the top of the screen and the following message in the center of the screen **Your filter reminder is going to be reset. You will be notified in <X Months> to change it again**. The **X** displays the number of months designated at the initial thermostat setup.
A graphic, adjacent to the Filter Reminder, appears to signify that the Filter Reminder has gone off.


Filter Reminder Reset
Your Filter reminder is going to be reset. You will be notified in
3 Months to
change it again.
Cancel
OK

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to reset the reminder. If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.

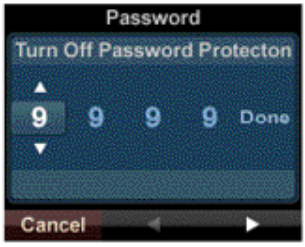
Turning the Password Protect Feature On or Off

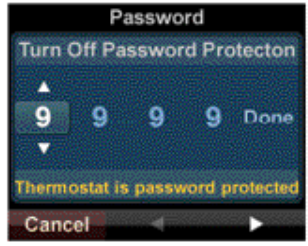
If your THZ-100 thermostat was initially setup through the MRX Advanced Network System Controller with the **Use Pass-Code Lockout** feature enabled on the **Advanced Thermostat Settings** then **Password** shows as an item in the **Options** screen. The current state of the password protection, whether on or off, is displayed on the right side of the display. Otherwise, this item does not display.

Entering your password toggles this feature on and off. If you desire to toggle the state of the password protection then use the arrow keys to move the highlight bar to **Password**.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this option. If you decide to cancel the operation then press the key below the **Go Back** key label in the smart-key label at the bottom left of the display.

After selecting **OK**, the LCD screen displays either **Turn ON Password Protection** or **Turn OFF Password Protection** at the top of the screen as appropriate. The number 9 appears four times across the center of the screen followed by the word **Done**. The number 9 on the left side of the display is highlighted with small arrows above and below the number.





At the bottom of the screen are three smart-key labels for the three buttons located below the LCD display. The left button is **Cancel**, the center button is a left arrow, and the right button is a right arrow.

To enter your password, use the Up and Down arrow keys to enter a number between 0 and 9, then use the left or right arrow smart-keys at the bottom of the page to select the next digit to be entered.
When you have entered all four digits of your password then use the right arrow smart-key to move the highlight to the word **Done**. At this point, the right smart-key changes from a right arrow to **Enter**. Press the key below **Enter** to enter your password. If you enter the password correctly then the LCD screen changes back to the thermostat main screen; otherwise, the display maintains the password entry screen.

Changing the LCD Screen Options

If you desire to change any of the LCD screen settings such as brightness, timeout or auto dimming then use the arrow keys to move the highlight bar to **LCD Screen**.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select these options. If you decide to cancel the operation then press the key below the **Go Back** key label in the smart-key label at the bottom left of the display.

After pressing **OK**, the screen updates to give you a list of the LCD screen parameters that you can change.

Adjusting the LCD Brightness

If you desire to change the brightness of your thermostat LCD display then use the arrow keys to move the highlight bar to **LCD Brightness**.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this option. If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.

After pressing **OK**, the screen updates to a screen that says **LCD Screen Brightness** at the top of the screen and the current brightness level in the center of the screen. Use the arrow keys to adjust the brightness percentage to the value you desire. As you change the value of the brightness in the center of the display the brightness changes to correspond to the level displayed.

When you are satisfied with your brightness level selection then press the key below the **Set Level** key label in the smart-key label box at the bottom right of the display to save your new value. If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.

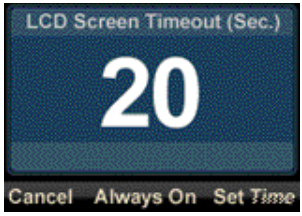
Adjusting the LCD Time Out Time

The time out time for your thermostat LCD display is the time from the last activity using the buttons to the time the LCD screen turns off.

If you desire to change the time out time of your thermostat LCD display then use the arrow keys to move the highlight bar to **LCD Timeout**.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this option. If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.

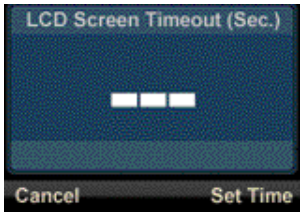
After pressing **OK**, the screen updates to a screen that says **LCD Screen Timeout (Sec.)**\ at the top of the screen and the current timeout time in the center of the screen. Use the arrow keys to adjust the timeout time to the value you desire. The value changes in 5 second increments and can be set between 5 seconds and 120 seconds.



When you are satisfied with your timeout time selection then press the key below the **Set Time** key label in the smart-key label at the bottom right of the display to save your new value. If you decide to cancel the operation then press the key below the Cancel key label in the smart-key label at the bottom left of the display.

The third option at the bottom of the screen is **Always On**. If you select the button below **Always On**, the thermostat returns to the main screen and the LCD display remains on continuously.

If you enter the **LCD Screen Timeout (Sec.)** screen with always on previously selected then the current timeout time display as three empty boxes in the center of the screen and **Always On** is not be an option at the bottom of the screen.



Selecting Auto Dimming

If auto dimming is turned on, then the bottom item in the list on this screen shows, **Auto Dimming ON**. If auto dimming is turned off then the bottom item in the list on this screen shows, **Auto Dimming OFF**.

If you desire to change the auto dimming state of your thermostat LCD display then use the arrow keys to move the highlight bar to **Auto Dimming** to toggle this option.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to select this option. If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.

Viewing THZ-100 Thermostat Information

The **Information** selection in the **Options** screen is used to display various THZ-100 thermostat parameters to indicate how the thermostat was setup as well as some wireless signal strength information. This information is not used in normal operation.

Setting the Date and Time

If your THZ-100 has lost wireless communication with the MRX Advanced Network System Controller main unit, the **Options** list includes an option to set the date and time. If you desire to set the date and/or time then use the arrow keys to move the highlight bar to **Date & Time**.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to change your settings. If you decide to cancel the operation then press the key below the **Go Back** key label in the smart-key label at the bottom left of the display.

After pressing **OK**, the screen updates to give you a list of the date and time entries that you can change. The left column displays Month, Day, Year, Hour, and Minute. The right column displays the current value. Use the arrow keys to move the highlight bar to value you wish to change.

in the smart-key label at the bottom right of the display to select this option. If you decide to cancel the operation then press the key below the **Cancel** key label in the smart-key label at the bottom left of the display.

Press the key below the **OK** key label in the smart-key label at the bottom right of the display to change your settings. If you decide to cancel the operation then press the key below the **Go Back** key label in the smart-key label at the bottom left of the display.

The new screen display shows the value that you have selected to change. Use the Up and Down arrow keys to the right of the display to select your new value. When you are satisfied with your new selection, press the key below the **Set <parameter>** key label

Discovery Mode

The **Discovery Mode** selection in the **Options** screen is used to establish communications between the THZ-100 thermostat and the MRX Advanced Network System Controller unit for initial setup of the thermostat and any required updates. This is not used in normal operation.

Troubleshooting Thermostat On-Screen Notifications

There are notifications on screen for checking the filter, wireless.

If you receive a **Check Filter** notification then replace the furnace filter and reset the filter notification as outlined above.

If you receive a **Check Wireless** notification then check the signal strength of the THZ-100. If the strength is not excellent then contact your dealer for more assistance.

If the display shows "**Wait...**" flashing during the operation of the HVAC system, the Compression Protection has been activated. Once Compression Protection cycles, the system can operate as normal. This will help prevent your HVAC's compressor from turning ON and OFF too quickly.

If the THZ-100 shows a normal Idle state, but the current temperature is outside the desired temperature, then the Maximum Cycles per hour have been reached.

In addition, pairing to the MRX Advanced Network System Controller base unit will be erased and the thermostat will need to go through the discovery mode to re-establish communications.

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In the event of any warranty claim, URC will, at its sole option, repair the URC equipment using new or comparable rebuilt parts, or exchange the URC equipment for new or rebuilt equipment. **In the event of a defect, these are the end user's exclusive remedies.**

All the URC equipment returned for service, exchange or repair require an RGA number. To obtain an RGA number, you must complete a Return Request Form which you may obtain by calling (914) 835-4484 or contacting URC at returnrequest@universalremote.com. To obtain warranty service, end user must deliver the URC equipment, freight prepaid, in its original packaging or packaging affording adequate protection to URC at 420 Columbus Avenue, Valhalla, NY 10595. It is end user's responsibility to backup any macro programming, artwork, software or other materials that may have been programmed into the unit. It is likely that such data, software, or other materials will be lost during service and URC will not be responsible for any such damage or loss. A dated purchase receipt, bill of sale, installation contract or other verifiable proof of purchase is required. For the URC equipment support and other important information, please visit URC's website available at www.universalremote.com or call the Customer Service Center at (914) 835-4484.

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End User Agreement

The terms and conditions of the End User Agreement available at www.universalremote.com/eua.php shall apply.

Specifications

Microprocessor: ARM Cortex-M3

Memory: 128 Kbytes of SRAM, 512 Kbytes of Flash memory

LCD: 2 inch (220x176)

RF Range (radio frequency): 50 to 100 feet, depending upon the environment

RF Frequency: 2.405 ~ 2.480GHz

Weight: 3.47 oz

Size: 3.15"H x 4.13"W x 0.93"D

Power: 24VAC

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning!

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Note : The manufacturer is not responsible for any Radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

FCC Caution

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

Federal Communication Commission (FCC) Radiation Exposure Statement

The device and the antenna for this device must be installed to ensure a minimum separation distance of 20 cm more from a person's body. Other operating configurations should be avoided.

Regulatory Information to the user

■ CE Conformity Notice

Products with "CE" marking comply with the R&TTE Directive 1995/5/EC, EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EEC issued by the commission of the European Community.

1) R&TTE Directive

- ●EMC : EN 55022
- ●RF : ETSI EN 300 220-1,2
  : ETSI EN 300
  : ETSI EN 301 489-1, 3

2) EMC Directive

- ●Emission : EN 55022
- ●Immunity : EN 55024
- ●Power : EN-61000-3-2, 3

URC™
Control the Experience.

Certification	CE 2200
Type No.(Model No.)	THZ-100
Batch/Serial No.	-
Power Rating	AC 24V
Frequency band	2.405~2.480GHz

Declaration of Conformity

Company Name	:	Universal Remote Control Inc.
Company Address	:	500 Mamaroneck Avenue, Harrison, NY 10528, U.S.A
Contact Information	:	www.universalremote.com Phone: (914)835-4484 Fax: (914)835-4532
Brand Name	:	UNIVERSAL remote control
Product Name	:	Two-way Thermostat
Model Name	:	THZ-100

This product herewith complies with the requirements of EMC Directive (2004/108/EC) and R&TTE Directive(1995/5/EC) issued bythe Commission of the European Community

Compliance with these directives implies conformity to the following European Community

- EMC Directive
  - EN 55022
  - EN 55024
  - EN 61000-3-2
  - EN 61000-3-3
- R&TTE Directive
  - ETSI EN 301-489-1,3
  - ETSI EN 300 220-1,2
  - ETSI EN 300

List of test reports and/or certificate verified compliance with the standards above

- EMC Directive
  - Report No.
  - Testing Laboratory : Gumi College EMC Center
- R&TTE Directive
  - Certificate No.
  - Certificate Body : SIEMIC (No. 2200)

Date of issue : December 1, 2011

Name and signature of authorized person : James Novak

Senior Product Manager
Universal Remote Control Inc.

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